CLAIMS

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1. Superplasticizing additive for concrete and other cement mixtures with high strength development capacity and low air-entraining effect, comprising terpolymers of the following mixture of monomers respectively having formulas IV, V and VI

$$CH_2 = C - C - C - Z \qquad (IV)$$

where Z = H, Na, Li, ½ Ca and X is H or CH_3 ,

$$c_{H_2} = c - c - c - w \qquad (V)$$

where $W = -(-CH_2-CH_2-O-)_n - CH_3$, n is integer approximately between 51 and 300 and X is H or CH_3 ;

where

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and m is an integer from 2 to 50.

- 2. Superplasticizing additive according to claim 1, wherein the monomer of formula V is polyethyleneglycolmonomethylether-(meth)acrylate of molecular weight from about 2000 to about 13200.
- 3. Superplasticizing additive according to claim 1, wherein the monomer of formula VI is polypropyleneglycol-di-(meth)acrylate of molecular weight between about 280 to about 11800.

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4. Superplasticizing additive according to claim 1, wherein the amount of acrylic monomers (IV) and (V) ranges from 90 to 99.9 percent of the whole polymerized mass and the amount of monomer (VI) ranges from 0.1 to 10 percent of the whole polymerized mass.

- 5 5. Superplasticizing additive according to claim 1, wherein the weight ratio between acrylic monomers (IV) and (V) is in the range from 0.05 to 0.5.
 - 6. Cement mixtures containing from 0.01 to 3.00 percent by weight of the cement, on a dry basis of the additive of the claim 1.